THANAWAT LODKAEW

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EDUCATION

King Mongkuts Institute of Technology Ladkrabang (KMITL)   *Graduation year: 2020*
Studying towards a Bachelor's degree in Information Technology
Faculty of Information Technology

- Having taken several AI-related courses, machine learning, computer vision and image processing.

EXPERIENCE

Undergraduate Researcher   Since 2017
Data Science and Machine Learning Research Laboratory (DSMLR), KMITL

· Having proposed a computer-vision-based approach for heat detection in cows.
· Having proposed an approach for retrieving similar visual objects by utilizing CNN features for similarity measurement and using object segmented images instead of object-cropped images for better results.

Research Intern   Summer 2019
Vision and Learning Laboratory, Vidyasirimedhi Institute of Science and Technology (VISTEC)

· Having proposed a deep-learning-based framework for removing furniture objects in a room image. The framework uses an image inpainting technique to perform the task.

Exchange Student   Summer 2018
National Institute of Technology, Kurume College

· Having researched for an improvement of the Saak transform using convex optimization on sparse representation.

EXTRACURRICULAR ACTIVITY

Deep Learning and Artificial Intelligence Winter School by World Renowned Researchers
Three days, Bangkok, Thailand

- Having gained knowledge about several aspects of deep learning and artificial intelligence such as deep CNN neocognitron for artificial vision, randomized algorithms, swarm search and deep learning for emotion.

Workshop on Introduction to Social Computing by Prof. Irwin King
Five days, Bangkok, Thailand

- Having gained knowledge about collecting, extracting, accessing, processing, computing and visualizing social signals and information.

- Having had a clear understanding of the fundamentals of recommendation system.

PUBLICATIONS

1. Kitsuchart Pasupa and **Thanawat Lodkaew**. A new approach to automatic heat detection of cattle in video. In *International Conference on Neural Information Processing*, pages 330–337. Springer, 2019

2. **Thanawat Lodkaew**, Weeruhputt Supsohmboon, Kitsuchart Pasupa, and Chu Kiong Loo. Fashion finder: A system for locating online stores on instagram from product images. In *2018 10th International Conference on Information Technology and Electrical Engineering (ICITEE)*, pages 500–505. IEEE, 2018

ACADEMIC ACHIEVEMENTS

Third Place, IST FR 2019: Gateway to Informatics Research at EECi	2019
Third Place, National Software Contest on Artificial Intelligence Application	2018
Finalist, International ICT Innovative Services Contest	2017
Special Prize Award, NAPROCK International Programming Contest	2017
Finalist, TechJam Competition on Data Science Squad	2017
Honorable Mention Award, MUICT DataHack	2017

TECHNICAL STRENGTHS

Machine Learning Programming	Python with popular machine learning libraries such as Tensorflow, Keras, Sci-Kit Learn and Numpy
Cloud Computing Services	Google Cloud Platform

LANGUAGES

Thai (Native)

English

- Reading = Advanced
- Writing = Intermediate
- Speaking = Intermediate
- Listening = Intermediate

REFERENCES

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